

## Exhibit 300: Capital Asset Plan and Business Case Summary

### Part I: Summary Information And Justification (All Capital Assets)

#### Section A: Overview

1. **Date of Submission:** 2011-02-22

2. **Agency:** 007

3. **Bureau:** 17

4. **Name of this Investment:** JOINT PRECISION APPROACH AND LANDING SYSTEM

5. **Unique Project (Investment) Identifier (UPI):** 007-17-01-14-01-6189-00

6. **What kind of investment will this be in FY 2012?:** Full Acquisition

- Planning
- Full Acquisition
- Operations and Maintenance
- Mixed Life Cycle
- Multi-Agency Collaboration

7. **What was the first budget year this investment was submitted to OMB?** FY2001 or earlier

8.

- a. **Provide a brief summary of the investment and justification, including a brief description of how this closes in part or in whole an identified agency performance gap, specific accomplishments expected by the budget year and the related benefit to the mission, and the primary beneficiary(ies) of the investment.**

JPALS is a Global Positioning System/Inertial Navigation System based system that will provide a rapidly deployable, adverse weather, adverse terrain, day-night precision approach and landing capability for all DOD ground and airborne systems. It is a Navy-led joint program with the Air Force and Army. The sea-based JPALS will replace the obsolete SPN-46 and SPN-35 radar systems. JPALS Increment 1A is an MDAP ACAT 1D program, which includes the development, integration, installation, and testing of the sea-based system and is currently the only active increment for the JPALS program. Specific FY2012 accomplishments will include delivery of six of eight planned Engineering Development Model (EDM)s, delivery of three Avionics Test Kits, and completion of initial flight test of JPALS. These are critical steps towards Increment 1A IOC in FY2014.

- b. **Provide any links to relevant websites that would be useful to gain additional information on the investment including links to GAO and IG reports.**

Title	Link
NONE	

9.

- a. **Provide the date of the Agency's Executive/Investment Committee approval of this investment.**  
2009-09-18
- b. **Provide the date of the most recent or planned approved project charter.** 2010-04-14

10. **Contact information?**

- a. **Program/Project Manager Name:** \*
- Phone Number:** \*
- Email:** \*

- b. **Business Function Owner Name (i.e. Executive Agent or Investment Owner):** Sean Faubion  
**Phone Number:** \*  
**Email:** \*

**11. What project management qualifications does the Project Manager have? (choose only one per FAC-P/PM or DAWIA):** Project manager has been validated according to FAC-P/PM or DAWIA criteria as qualified for this investment.

- Project manager has been validated according to FAC-P/PM or DAWIA criteria as qualified for this investment.
- Project manager qualifications according to FAC-P/PM or DAWIA criteria is under review for this investment.
- Project manager assigned to investment, but does not meet requirements according to FAC-P/PM or DAWIA criteria.
- Project manager assigned but qualification status review has not yet started.
- No project manager has yet been assigned to this investment.

## Section B: Summary of Funding (Budget Authority for Capital Assets)

1.

Table I.B.1: Summary of Funding  
(In millions of dollars)

(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY-1 and earlier	PY 2010	CY 2011 (CY Continuing Resolution)	BY 2012	BY+1 2013	BY+2 2014	BY+3 2015	BY+4 and beyond	Total
Planning:	*	*	*	*	*	*	*	*	*
Acquisition:	*	*	*	*	*	*	*	*	*
Planning & Acquisition Government FTE Costs	*	*	*	*	*	*	*	*	*
Subtotal Planning & Acquisition(DME):	*	*	*	*	*	*	*	*	*
Operations & Maintenance:	*	*	*	*	*	*	*	*	*
Disposition Costs (optional):	*	*	*	*	*	*	*	*	*
Operations, Maintenance, Disposition Government FTE Costs	*	*	*	*	*	*	*	*	*
Subtotal O&M and Disposition Costs (SS):	*	*	*	*	*	*	*	*	*
TOTAL FTE Costs	*	*	*	*	*	*	*	*	*
TOTAL (not including FTE costs):	*	*	*	*	*	*	*	*	*
TOTAL (including FTE costs):	*	*	*	*	*	*	*	*	*
Number of FTE represented by	*	*	*	*	*	*	*	*	*

**Table I.B.1: Summary of Funding**  
**(In millions of dollars)**

(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY-1 and earlier	PY 2010	CY 2011 (CY Continuing Resolution)	BY 2012	BY+1 2013	BY+2 2014	BY+3 2015	BY+4 and beyond	Total
Costs:									

2. Insert the number of years covered in the column “PY-1 and earlier”: 8

3. Insert the number of years covered in the column “BY+4 and beyond”: \*

4. If the summary of funding has changed from the FY 2011 President’s Budget request, briefly explain those changes:

\*

## Section C: Acquisition/Contract Strategy (All Capital Assets)

1.

Table I.C.1 Contracts Table

Contract Status	Contracting Agency ID	Procurement Instrument Identifier (PIID)	Indefinite Delivery Vehicle (IDV) Reference ID	Solicitation ID	Alternative financing	EVM Required	Ultimate Contract Value (M)	Type of Contract/Task Order (Pricing)	Is the contract a Performance Based Service Acquisition (PBSA)?	Effective date	Actual or expected End Date of Contract/Task Order	Extent Competed	Short description of acquisition
Awarded		<a href="#">N0017804D4016</a>			*	*	\$2,340,000.0	Cost Plus Fixed Fee	N	2004-04-05		Y	200412!046138!1700!BW10S !NSWCDD DAHLGREN !N0017804D4016 !A!N! !Y! ! !20040405!20190404!075916762!075916762!101458586!N!ARINC ENGINEERING SERVICES, LL!2551 RIVA ROAD !ANNAPOLIS !MD!21401!82000!810!51! Virginia Beach !Virginia Beach (city) !Virginia !+000000000000!N!N!000500000000!R425!Engineer ing Technical

Table I.C.1 Contracts Table

Contract Status	Contracting Agency ID	Procurement Instrument Identifier (PIID)	Indefinite Delivery Vehicle (IDV) Reference ID	Solicitation ID	Alternative financing	EVM Required	Ultimate Contract Value (M)	Type of Contract/Task Order (Pricing)	Is the contract a Performance Based Service Acquisition (PBSA)?	Effective date	Actual or expected End Date of Contract/Task Order	Extent Completed	Short description of acquisition
Awarded		<a href="#">N0001908C0034</a>		N0001907R0044	*	*	\$232,000,000.0	Combination (two or more)	X	2008-07-17	2014-09-30	Y	JPALS SDD

Services  
 !S1  
 !SERVICES  
 !333 !LHA  
 (R)  
 !541330!E!  
 !3!B!M!

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

\*

3.

- Has an Acquisition Plan been developed? If yes, please answer the questions that follow \*
- Does the Acquisition Plan reflect the requirements of FAR Subpart 7.1 \*
- Was the Acquisition Plan approved in accordance with agency requirements \*
- If "yes," enter the date of approval? \*
- Is the acquisition plan consistent with your agency Strategic Sustainability Performance Plan? \*
- Does the acquisition plan meet the requirements of EOs 13423 and 13514? \*
- If an Acquisition Plan has not been developed, provide a brief explanation.

\*

## Part II: IT Capital Investments

### Section A: General

1.
  - a. Confirm that the IT Program/Project manager has the following competencies: configuration management, data management, information management, information resources strategy and planning, information systems/network security, IT architecture, IT performance assessment, infrastructure design, systems integration, systems life cycle, technology awareness, and capital planning and investment control. no
  - b. If not, confirm that the PM has a development plan to achieve competencies either by direct experience or education. yes
2. Describe the progress of evaluating cloud computing alternatives for service delivery to support this investment. JPALS is Platform IT (PIT) designated. Cloud computing is not applicable. JPALS is an MDAP program. The program office expects to be removed from the MAIS list by the summer of FY2011.
3. Provide the date of the most recent or planned Quality Assurance Plan
4.
  - a. Provide the UPI of all other investments that have a significant dependency on the successful implementation of this investment.
  - b. If this investment is significantly dependent on the successful implementation of another investment(s), please provide the UPI(s).
5. An Alternatives Analysis must be conducted for all Major Investments with Planning and Acquisition (DME) activities and evaluate the costs and benefits of at least three alternatives and the status quo. The details of the analysis must be available to OMB upon request. Provide the date of the most recent or planned alternatives analysis for this investment. 2007-12-19
6. Risks must be actively managed throughout the lifecycle of the investment. The Risk Management Plan and risk register must be available to OMB upon request. Provide the date that the risk register was last updated. 2010-09-01

## Section B: Cost and Schedule Performance

Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
NAVY JPALS Inc 1A Sea Based Pre MSB activities; technology maturation, algorithm development, demonstrations with ship, aircraft test platforms, anti-jam development, refined accuracy, fostered competition developing multiple contractors.		*	\$84.8	\$84.8	1995-01-01	1995-01-01	2008-01-11	2008-07-15	100.00%	100.00%
NAVY JPALS Inc 1B MSB activities, such as development/integration to enable F/A-18 E/F, EA-18G, MH-60 R/S the ability to utilize the JPALS sea-based system. Development and integration are inclusive of design/build/test for the initial EDM aircraft	DME	*	*	*	2011-12-01	*	2019-09-30	*	*	*
NAVY Inc1A JPALS MSB	DME	*	\$652.0	\$185.0	2008-09-15	2008-09-15	2014-09-30		42.48%	42.48%



Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
Engineering Manufacturing and Development of a sea based JPALS system. Activities include requirements definition, HW design and SW development, development and operation test, development of acft test pallet.										
Army Inc1 and Inc2 unique JPALS dev. and integ. efforts. These efforts would cover unique aspects of Army requirements for land based JPALS as well as development and integration of avionics into A/C to allow them to utilize Sea and land based JPALS		*	\$176.6	\$13.8	2008-10-01	2008-10-01	2024-09-30		8.00%	8.00%
Air Force JPALS Inc 2 Land Based Pre MSB activities; technology maturation, algorithm development,		*	\$189.2	\$126.7	1995-01-01	1995-01-01	2013-09-30		67.00%	67.00%

Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
aircraft test platforms, anti-jam development, refined accuracy, fostered competition developing multiple contract										
Air Force JPALS MSB Engineering Manufacturing and Development of a land based JPALS system. Activities include requirements definition, HW design and SW development, development and operation test, development of aircraft test pallet.		*	*	*	2013-10-01	*	2017-09-30	*	*	*

2. If the investment cost, schedule, or performance variances are not within 10 percent of the current baseline, provide a complete analysis of the reasons for the variances, the corrective actions to be taken, and the most likely estimate at completion. N/A

3. For mixed lifecycle or operations and maintenance investments an Operational Analysis must be performed annually. Operational analysis may identify the need to redesign or modify an asset by identifying previously undetected faults in design, construction, or installation/integration, highlighting whether actual operation and maintenance costs vary significantly from budgeted costs, or documenting that the asset is failing to meet program requirements. The details of the analysis must be available to OMB upon request. Insert the date of the most recent or planned operational analysis.

4. Did the Operational analysis cover all 4 areas of analysis: Customer Results, Strategic and Business Results, Financial Performance, and Innovation?

Section C: Financial Management Systems

Table II.C.1: Financial Management Systems			
System(s) Name	System acronym	Type of Financial System	BY Funding
*	*	*	*

Section D: Multi-Agency Collaboration Oversight (For Multi-Agency Collaborations only)

Table II.D.1. Customer Table:	
Customer Agency	Joint exhibit approval date
NONE	

Table II.D.2. Shared Service Providers		
Shared Service Provider (Agency)	Shared Service Asset Title	Shared Service Provider Exhibit 53 UPI (BY 2011)
*	*	*

Table II.D.3. For IT Investments, Partner Funding Strategies (\$millions):							
Partner Agency	Partner exhibit 53 UPI (BY 2012)	CY Monetary Contribution	CY “In-Kind” Contribution	CY Fee-for-Service	BY Monetary Contribution	BY “In-Kind” Contribution	BY Fee-for-Service
NONE							

Table II.D.4. Legacy Systems Being Replaced		
Name of the Legacy Investment of Systems	Current UPI	Date of the System Retirement
*	*	*

## Section E: Performance Information

Table I.E.1a. Performance Metric Attributes

Measurement Area (For IT Assets)	Measurement Grouping (For IT Assets)	Measurement Indicator	Reporting Frequency	Unit of Measure	Performance Measure Direction	Baseline	Year Baseline Established for this measure (Origination Date)
Mission and Business Results	System Development	Guidance Quality	monthly	Feet and Nautical Miles (NM)	Maintain Current	Acquisition Program Baseline (APB)	2008-07-14
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2010	Certification for operations in 0 ft ceiling and 0 NM visibility conditions.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.	Met	2011-02-11
Mission and Business Results	System Development	Guidance Quality	monthly	Feet and Nautical Miles (NM)	Maintain current	Acquisition Program Baseline (APB)	2008-07-14
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2011	Certification for operations in 0 ft ceiling and 0 NM visibility conditions.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.	Met	2011-02-11
Mission and Business Results	System Development	Guidance Quality	monthly	Feet and Nautical Miles	Maintain current	Acquisition Program	2008-07-14

Results			(NM)		Baseline (APB)		
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	Certification for operations in 0 ft ceiling and 0 NM visibility conditions.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.	Met	2011-02-11
Customer Results	System Development	Manpower	monthly	Billet	Maintain current	Acquisition Program Baseline (APB)	2008-07-14
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2010	Should reduce current manning levels when currently fielded systems are phased out & require no dedicated personnel. Should be reduced to no more than one qualified air traffic controller.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.	Met	2011-02-11
Mission and Business Results	System Development	Manpower	monthly	Billet	Maintain current	Acquisition Program Baseline (APB)	2008-07-14
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2011	Should reduce current manning levels when currently fielded systems are phased out & require no dedicated personnel. Should be reduced to no	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was	Met	2011-02-11

				more than one qualified air traffic controller.	awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.		
Customer Results	System Development	Manpower	monthly	Billet	Maintain current	Acquisition Program Baseline (APB)	2008-07-14
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	Should reduce current manning levels when currently fielded systems are phased out & require no dedicated personnel. Should be reduced to no more than one qualified air traffic controller.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.	Met	2011-02-11
Processes and Activities	System Development	Network Ready: Must support Net-Centric military operations & exchange data in a secure manner & continuously provide survivable, inter-operable, secure, and operationally effective information exchanges to enable a Net-Centric military capability.	monthly	Yes or No	Maintain current	Acquisition Program Baseline (APB)	2008-07-14
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2010	System must fully support execution of joint critical operational activities identified in applicable joint and system integrated	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was	Met	2011-02-11

				architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations.	awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.		
Processes and Activities	System Development	Network Ready: Must support Net-Centric military operations & exchange data in a secure manner & continuously provide survivable, inter-operable, secure, and operationally effective information exchanges to enable a Net-Centric military capability.	monthly	Yes or No	Maintain current	Acquisition Program Baseline (APB)	2008-07-14
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2011	Analysis shows that the tactical JPALS can support category three landing requirements	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.	Met	2011-02-11
Processes and Activities	System Development	Network Ready: Must support Net-Centric military operations & exchange data in a secure manner & continuously provide survivable, inter-operable, secure, and operationally effective information exchanges to enable a Net-Centric military	monthly	Yes or No	Maintain current	Acquisition Program Baseline (APB)	2008-07-14



capability.

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2012	System must fully support execution of joint critical operational activities identified in applicable joint and system integrated architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.	Met	2011-02-11

\* - Indicates data is redacted.